

Takashi Mochizuki

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

2,461
citations

331670

21
h-index

243625

44
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48
all docs

48
docs citations

48
times ranked

2883
citing authors

#	ARTICLE	IF	CITATIONS
1	Description and basic evaluation of simulated mean state, internal variability, and climate sensitivity in MIROC6. <i>Geoscientific Model Development</i> , 2019, 12, 2727-2765.	3.6	439
2	Initialized near-term regional climate change prediction. <i>Nature Communications</i> , 2013, 4, 1715.	12.8	250
3	Pacific decadal oscillation hindcasts relevant to near-term climate prediction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 1833-1837.	7.1	189
4	North Atlantic climate far more predictable than models imply. <i>Nature</i> , 2020, 583, 796-800.	27.8	158
5	MIROC4hâ€”A New High-Resolution Atmosphere-Ocean Coupled General Circulation Model. <i>Journal of the Meteorological Society of Japan</i> , 2012, 90, 325-359.	1.8	146
6	Robust skill of decadal climate predictions. <i>Npj Climate and Atmospheric Science</i> , 2019, 2, .	6.8	136
7	Skilful multi-year predictions of tropical trans-basin climate variability. <i>Nature Communications</i> , 2015, 6, 6869.	12.8	132
8	Strengthening of ocean heat uptake efficiency associated with the recent climate hiatus. <i>Geophysical Research Letters</i> , 2013, 40, 3175-3179.	4.0	108
9	A Regional Oceanâ€”Atmosphere Model for Eastern Pacific Climate: Toward Reducing Tropical Biases*. <i>Journal of Climate</i> , 2007, 20, 1504-1522.	3.2	104
10	Development of a fourâ€”dimensional variational coupled data assimilation system for enhanced analysis and prediction of seasonal to interannual climate variations. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	101
11	An overview of decadal climate predictability in a multi-model ensemble by climate model MIROC. <i>Climate Dynamics</i> , 2013, 40, 1201-1222.	3.8	67
12	Potential tropical Atlantic impacts on Pacific decadal climate trends. <i>Geophysical Research Letters</i> , 2016, 43, 7143-7151.	4.0	65
13	The Initialization of the MIROC Climate Models with Hydrographic Data Assimilation for Decadal Prediction. <i>Journal of the Meteorological Society of Japan</i> , 2012, 90A, 275-294.	1.8	63
14	Decadal Prediction Using a Recent Series of MIROC Global Climate Models. <i>Journal of the Meteorological Society of Japan</i> , 2012, 90A, 373-383.	1.8	60
15	Pacific decadal oscillation remotely forced by the equatorial Pacific and the Atlantic Oceans. <i>Climate Dynamics</i> , 2020, 55, 789-811.	3.8	35
16	Interbasin effects of the Indian Ocean on Pacific decadal climate change. <i>Geophysical Research Letters</i> , 2016, 43, 7168-7175.	4.0	32
17	Predicted Chance That Global Warming Will Temporarily Exceed 1.5Â°C. <i>Geophysical Research Letters</i> , 2018, 45, 11,895.	4.0	31
18	Relationship between the Pacific and Atlantic stepwise climate change during the 1990s. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	30

#	ARTICLE	IF	CITATIONS
19	El Niño Southern Oscillation Evolution Modulated by Atlantic Forcing. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016318.	2.6	27
20	Predictability of a Stepwise Shift in Pacific Climate during the Late 1990s in Hindcast Experiments Using MIROC. <i>Journal of the Meteorological Society of Japan</i> , 2012, 90A, 1-21.	1.8	26
21	Ocean Impacts on Australian Interannual to Decadal Precipitation Variability. <i>Climate</i> , 2018, 6, 61.	2.8	25
22	Tropical Atlantic-Korea teleconnection pattern during boreal summer season. <i>Climate Dynamics</i> , 2017, 49, 2649-2664.	3.8	23
23	Multiyear climate prediction with initialization based on 4DVar data assimilation. <i>Geophysical Research Letters</i> , 2016, 43, 3903-3910.	4.0	22
24	Seasonal to Decadal Predictions With MIROC6: Description and Basic Evaluation. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS002035.	3.8	19
25	Interannual variability of North Pacific eastern subtropical mode water formation in the 1990s derived from a 4-dimensional variational ocean data assimilation experiment. <i>Dynamics of Atmospheres and Oceans</i> , 2011, 51, 1-25.	1.8	16
26	On the Mechanisms of the Active 2018 Tropical Cyclone Season in the North Pacific. <i>Geophysical Research Letters</i> , 2019, 46, 12293-12302.	4.0	15
27	Hindcast Prediction and Near-Future Projection of Tropical Cyclone Activity over the Western North Pacific Using CMIP5 Near-Term Experiments with MIROC. <i>Journal of the Meteorological Society of Japan</i> , 2013, 91, 431-452.	1.8	15
28	Improved coupled GCM climatologies for summer monsoon onset studies over Southeast Asia. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	14
29	A simple diagnostic calculation of marine stratocumulus cloud cover for use in general circulation models. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	12
30	A new Approach to El Niño Prediction beyond the Spring Season. <i>Scientific Reports</i> , 2015, 5, 16782.	3.3	12
31	A possible role for unstable coupled waves affected by resonance between Kelvin waves and seasonal warming in the development of the strong 1997-1998 El Niño. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2009, 56, 495-512.	1.4	10
32	Seasonality of Decadal Sea Surface Temperature Anomalies in the Northwestern Pacific. <i>Journal of Climate</i> , 2006, 19, 2953-2968.	3.2	9
33	Possible Influence of Volcanic Activity on the Decadal Potential Predictability of the Natural Variability in Near-Term Climate Predictions. <i>Advances in Meteorology</i> , 2010, 2010, 1-7.	1.6	9
34	Impact of the Assimilation of Sea Ice Concentration Data on an Atmosphere-Ocean-Sea Ice Coupled Simulation of the Arctic Ocean Climate. <i>Scientific Online Letters on the Atmosphere</i> , 2011, 7, 37-40.	1.4	8
35	Seasonal climate modeling over the Indian Ocean by employing a 4DVAR coupled data assimilation approach. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	7
36	Influence of XBT Temperature Bias on Decadal Climate Prediction with a Coupled Climate Model. <i>Journal of Climate</i> , 2011, 24, 5303-5308.	3.2	7

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37	Summertime Evolution of Decadal Sea Surface Temperature Anomalies in the Midlatitude North Pacific. <i>Journal of Climate</i> , 2008, 21, 1569-1588.	3.2	6
38	Impact of in-consistency between the climate model and its initial conditions on climate prediction. <i>Climate Dynamics</i> , 2017, 49, 1061-1075.	3.8	6
39	Maintenance of Decadal SST Anomalies in the Midlatitude North Pacific. <i>Journal of the Meteorological Society of Japan</i> , 2003, 81, 477-491.	1.8	6
40	Observed and hindcasted subdecadal variability of the tropical Pacific climate. <i>ICES Journal of Marine Science</i> , 0, , .	2.5	4
41	Error Sensitivity to Initial Climate States in Pacific Decadal Hindcasts. <i>Scientific Online Letters on the Atmosphere</i> , 2014, 10, 39-44.	1.4	4
42	Possible oceanic feedback in the extratropics in relation to the North Atlantic SST tripole. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	3
43	Cascading effects of the Changbai Mountains on an extreme weather disaster in northern Japan in January 2021. <i>Weather and Climate Extremes</i> , 2022, 36, 100439.	4.1	2
44	Initialized near-term regional climate change prediction. , 0, .		1
45	Japanese studies of ocean data assimilation: milestones over the past 20 years and future perspectives. <i>Oceanography in Japan</i> , 2017, 26, 15-43.	0.5	1